



State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095

(603) 271-3406 FAX (603) 271-7894

May 22, 2002

Letter of Deficiency

DAM #126.25



Mr. Tom Dutton
Public Works Dept.
City of Keene
580 Main Street
Keene, NH 03431

RE: Robinhood Park Reservoir, Keene

Dear Mr. Dutton:

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that plays a part in reaching this goal is our inspection program. DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on October 22, 2001. During this visual inspection and/or file review, the following deficiencies were observed:

The outlet pipe was completely deteriorated at the base and the headwall was failing both upstream and downstream;

2. The existing 36" CMP is inadequate to safely pass the 100-year, 24-hour storm. Past reports have noted that if the paved crest of the dam, that is uneven, is to be considered in the discharge capacity assessment, both upstream and downstream faces of the dam must be treated with properly designed erosion protection material; and
3. The Emergency Action Plan (EAP) is in need of updating and testing as required annually.

DES believes that the above deficiencies can be corrected by performing the following items by the indicated schedule:

July 1, 2002:

1. Update and test the EAP;

December 1, 2002:

2. Replace the outlet pipe and both upstream and downstream headwalls that were corroded and deteriorating; and
3. In conjunction with replacement of the outlet pipe, as indicated above, submit plans to upgrade the dam's outlet to safely pass the intended design event. Any upgrade will require a formal reconstruction application to be submitted to our office, please refer to the attached guidelines. The dam, being a significant hazard dam, Class B structure, must be able to pass the $\frac{1}{2}$ PMP with one foot of freeboard remaining on the dam.

DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date(s) indicated above. If you believe changes to the items of work or dates are necessary, please make

the changes directly on the form and provide a brief explanation. We have enclosed a self addressed stamped envelope for you to return this form.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at the address listed on the top of the previous page.

Sincerely,


COPY

Dale F. Guinn, P.E.
Dam Safety Engineer

Attachments DB13

cc: Gretchen Rule ✓

Certified # 7099 3400 0002 9773 7450

DFG/was/h:/safety/wendy/lod/126-25lod.doc